

Operation Manual

Waste Water Pump

51552, 51553



Illustration similar, may vary depending on model

Read and follow the operating instructions and safety information before using for the first time.

Technical changes reserved!

Due to further developments, illustrations, functioning steps, and technical data can differ insignificantly.

Updating the documentation

If you have suggestions for improvement or have found any irregularities, please contact us.

The information contained in this document may alter at any time without previous notice. It is prohibited to copy or spread any parts of this document in any way without prior written allowance. All rights reserved.

The WilTec Wildanger Technik GmbH cannot be held accountable for any possible mistakes in this operating manual, nor in the diagrams and figures shown.

Even though, the WilTec Wildanger Technik GmbH has undergone biggest possible efforts to ensure that the operating manual is complete, faultless, and up to date, mistakes cannot be entirely avoided.

If you should find a mistake or wish to make a suggestion for improvement, we look forward to hearing from you.

Send an e-mail to:

service@wiltec.info

or use our contact form:

<https://www.wiltec.de/contacts/>

The most recent version of this manual in various languages can be found in our online shop via:

<https://www.wiltec.de/docsearch>

Our postal address is:

WilTec Wildanger Technik GmbH
Königsbenden 12
52249 Eschweiler
Germany

Do you wish to pick goods up? Our pick-up address is:

WilTec Wildanger Technik GmbH
Königsbenden 28
52249 Eschweiler
Germany

To shorten the waiting time and allow for a rapid on-site transaction, we ask you to call us previously or placing your order via the webshop.

E-mail: service@wiltec.info

Tel: +49 2403 55592-0

Fax: +49 2403 55592-15

To return orders for exchange, repair, or other purposes, please use the following address. Attention! To allow for a smooth execution of your complaint or return, it is important to contact our customer service team before returning the goods.

Returns Department
WilTec Wildanger Technik GmbH
Königsbenden 28
52249 Eschweiler

E-mail: **service@wiltec.info**

Tel: +49 2403 55592-0

Fax: +49 2403 55592-15

Introduction

Thank you for purchasing this quality product. **To minimise the risk of injury we urge that our clients take some basic safety precautions when using this device. Please read the operation instructions carefully and make sure you have understood its content.**

Keep these operation instructions safe.

The submersible pump consists of a motor and a pump. Depending on the water level the float switch can turn the pump on and off automatically. The thermal protection of the motor can automatically turn the engine off if it is running too hot or overburdens itself, therefore security measures are kept in force even in roughest conditions. The pump needs to be submerged entirely.

Operating conditions

1. The maximum depth to submerge the pump is 5 m seen from the middle of the rotor.
2. The temperature of the liquids being pumped through may not be above 40 °C.
3. The pH level of the liquids being pumped may be between 4 and 10.
4. The kinematic viscosity of the liquids being pumped should be between 7×10^{-7} and 23×10^{-6} m²/s.
5. The maximum density of the liquids being pumped through is 1.2×1000 kg/m³.

Safety instructions



The use of this device is allowed on standing water bodies, garden ponds or swimming ponds and their surrounding areas only with fault current protection-switch with a triggering nominal current up to 30 mA (according to VDE 0100 Article 702 and 738).

The device is not suitable for use in swimming pools, paddling pools and other water bodies in which during operation people or animals linger. The operation of the device during the stay of people and animals in the danger zone is not allowed. Ask your electrician.

The device is not intended for use by persons (including children) with impaired or limited physical, sensory, and mental abilities or lack of experience and/or real knowledge, unless they are supervised by a person responsible for their safety or you follow the instructions made by this person how to use the device correctly. Children should be supervised to make sure that they do not play with the device.



- Perform a visual inspection of the device before every use. Do not use the device if the safety appliances are damaged or worn out. Never override safety regulations.
- Use the device exclusively according to the intended purpose stated in the instructions for use.
- You are responsible for the safety of the working environment.
- If the cable or the plug is damaged because of external influences, the cable must not be repaired, but must be replaced with a new one. This work can be carried out only by an electrician.
- The voltage indicated on the type plate of the device of 230 V AC must correspond to the existent mains voltage.
- Never lift, carry, or fix the device by using the power cable.
- Make sure that the electrical plug connection is placed in a flood-proof area and is protected from moisture.
- Before working on the garden pump, disconnect the appliance by taking the plug out of the socket.
- Avoid exposing the pump to a direct water jet.



- The user is responsible for the compliance with location specific safety and installing regulations. Ask an electrician.
- Consequential damage arising from flooded rooms caused by dysfunctions of the appliance must be avoided by means of the appropriate measures (e.g., installing an alarm system, a reserve pump).
- In case of malfunction, the repair work can be carried out only by a qualified electrician or specialist.
- The pump must not run dry or with the intake port completely closed. The manufacturer's guarantee is no longer valid if the damage is caused by dry running.
- The submersible pump must not be used for swimming pools.
- The pump cannot be employed for potable water circuits.

 **WARNING:**

Read all safety guidelines and instructions carefully. Non-compliance with the safety rules and regulations can lead to an electric shock, fire and/ or serious injury. Keep the instructions and the safety guidelines in a safe place in case you need them in the future.

Resistance

- The maximum temperature of the pumped liquids should not exceed +40 °C during continuous operation.
- This pump is not allowed to be used for burnable and explosive liquids, as well as gas.
- The transport of other liquids, especially engine fuels, cleaning detergents and other chemical products is prohibited!

Installation

Installing the pump can be done the following way: either in a fixed position with fixed piping or in a fixed position with flexible piping.

 **ATTENTION:**

- Please note that the pump may not be installed hanging of its pressure pipe or of its electricity cable. The submersible pump engine must be hung up via its handle/ stand on its shaft floor. If the water level is too low, the mud in the shaft can easily dry up and hinder the water flow. Therefore, it is required to check the submersible pump engine frequently (by doing a start-up test).
- The float switch has been adjusted for immediate use.

Maintenance

- Check the supply cable frequently; change them if necessary.
- After 2000 hours of operating time, the pump should be maintained the following way:
 - *Demounting the pump*
Check the parts easily worn, e.g., bearings, mechanical parts, oil seals, O-rings; exchange the parts worn.
 - *Oil change*
Open the oil exchange cap and pour mineral oil up to a height of 80 % of the shaft volume.
 - *Leak test*
After the maintenance work the leak tightness needs to be checked up on with air pressure: Fill the pump with 2 bar and watch the pressure gauge. If the air pressure does not drop within 3 min, the pump is leak proof.



Technical data

Item №	51552	51553
Intake voltage (V)	220–240	
Intake frequency (Hz)	50	
Power (W)	550	750
Max. delivery head (m)	10	12
Max. flow rate ($\frac{1}{h}$)	12,000	14,000
Max. sand percentage in water (%)	2	
Outlet (mm)	50	
Protection type	IP 54	

Troubleshooting

Error	Possible Reason	Error Clearance
Pump does not start.	<ol style="list-style-type: none"> 1. Inefficient voltage supply 2. Impeller blocked 3. Electric winding blown 4. Condenser broken 5. A phase is missing (with 380 V) 6. Too high cable resistance 	<ol style="list-style-type: none"> 1. Turn tension to $\pm 10\%$. 2. Remove blockage. 3. Exchange. 4. Change condenser. 5. Check switch and cable connection. 6. Use matching cable.
	3 and 4 may only be done by a specialist.	
Pump does not pump efficiently.	<ol style="list-style-type: none"> 1. Too high delivery head 2. Entrance filter blocked 3. Impeller worn 4. Not submerged enough 5. Wrong rotary direction (at 380 V) 	<ol style="list-style-type: none"> 1. Reduce delivery head height. 2. Clean filter. 3. Exchange impeller. 4. Change diving depth to min. 0.5 m. 5. Change 2 phases.
Pump stops suddenly.	<ol style="list-style-type: none"> 1. Switch released 2. Impeller blocked 3. Electric winding blown 	<ol style="list-style-type: none"> 1. Check power supply, exchange fuse. 2. Interrupt power supply, remove blockage. 3. Repair (specialist only!).

Disposal regulations

EU guidelines regarding the disposal of scrap electric appliances (WEEE, 2012/19/EU) were implemented in the law related to electrical and electronic equipment and appliances.

All WiITec electric devices that fall under the WEEE regulations are labelled with the crossed-out wheeled waste bin logo. This logo indicates that this electric equipment must not be disposed with the domestic waste.

The company WiITec Technik GmbH has been registered in the German registry EAR under the WEEE-registration number DE45283704.

Disposal of used electrical and electronic appliances (intended for use in the countries of the European Union and other European countries with a separate collection system for these appliances).

The logo on the article or on its packaging points out that this article must not be treated as normal household waste but must be disposed to a recycling collection point for electronic and electrical waste equipment. By contributing to the correct disposal of this article you protect the environment and the health of your fellow men. Environment and health are threatened by inappropriate disposal.



Material recycling helps reduce the consumption of raw materials.

Additional information on recycling this article can be provided by your local community, municipal waste disposal facilities, or the store where you purchased the article.

Address:
WiITec Wildanger Technik GmbH
Königsbenden 12 / 28
D-52249 Eschweiler

Important notice:

The reprint or reproduction, even of excerpts, and any commercial use, even in part, of this instruction manual require the written permission of WiITec Wildanger Technik GmbH.